BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Drilling of new Borewells and providing pipeline in ward No.07 Byatarayanapura

Agency; Sri. H.N. Shivashankar 490/3, 7th Cross, Mahalakshmi Layout Bangalore -560079

Measurements Taken On :

ABSTRACT OF MEASUREMENT SHEET - 1st and FINAL BILL

Item No	Description	Unit	Quantity	Approved Tender Rates	Amount	Remarks
Item No. 1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Geophysical investigation of existing Ground Water in the vicinity, its quality, quantity and acceptability of the users indicating the location of site, recommended depth of casing pipe required an extra depth of 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and and as per the directions of the Engineer-in-charge of the work .	Each Bw	7.00			
	present Qty	Each Bw	7.00			
	Previous Bill Qty	Each Bw	-			
	Total	Each Bw	7.00			
	Tender Qty	Each Bw	7.00			
	Now to be paid	Each Bw	7.00	1938.46	13569.22	
Item No. 02	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc., and as per the directions of the Engineer-in-charge of the work .	Rmtr	350.00			
	present Qty	Rmtr	350.00			
	Previous Bill Qty	Rmtr	-			
	Total	Rmtr	350.00			
	Tender Qty	Rmtr	50.00			
	Qty Upto 125%	Rmtr	62.50	315.18	19698.75	
	Qty Above 125%	Rmtr	287.50	283.54	81516.58	

81517.75

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Item No. 03	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) and as per the directions of the Engineer-in-charge of the work .	**Rmtr**	**350.00**			
	present Qty	**Rmtr**	**350.00**			
	Previous Bill Qty	**Rmtr**	**-**			
	Total	**Rmtr**	**350.00**			
	Tender Qty	**Rmtr**	**50.00**			
	Qty Upto 125%	**Rmtr**	**62.50**	**412.00**	**25750.00**	
	Qty Above 125%	**Rmtr**	**287.50**	**370.64**	**106557.62**	
Item No. 04	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) and as per the directions of the Engineer-in-charge of the work .	**Rmtr**	**350.00**		106559.00	
	present Qty	**Rmtr**	**350.00**			
	Previous Bill Qty	**Rmtr**	**-**			
	Total	**Rmtr**	**350.00**			
	Tender Qty	**Rmtr**	**50.00**			
	Qty Upto 125%	**Rmtr**	**62.50**	**458.35**	**28646.88**	
	Qty Above 125%	**Rmtr**	**287.50**	**412.33**	**118545.35**	
Item No. 05	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,and as per the directions of the Engineer-in-charge of the work .	**Rmtr**	**350.00**		118546.88	
	present Qty	**Rmtr**	**350.00**			
	Previous Bill Qty	**Rmtr**	**-**			
	Total	**Rmtr**	**350.00**			
	Tender Qty	**Rmtr**	**50.00**			
	Qty Upto 125%	**Rmtr**	**62.50**	**484.10**	**30256.25**	
	Qty Above 125%	**Rmtr**	**287.50**	**435.50**	**125205.20**	

125206.25

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

tem 06	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) and as per the directions of the Engineer-in-charge of the work .	**Rmtr**	**350.00**			
	present Qty	**Rmtr**	**350.00**			
	Previous Bill Qty	**Rmtr**	**-**			
	Total	**Rmtr**	**350.00**			
	Tender Qty	**Rmtr**	**50.00**			
	Qty Upto 125%	**Rmtr**	**62.50**	**560.32**	**35020.00**	
	Qty Above 125%	**Rmtr**	**287.50**	**504.06**	**144918.36**	
Item No. 07	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) and as per the directions of the Engineer-in-charge of the work .	**Rmtr**	**168.00**			
	present Qty	**Rmtr**	**168.00**			
	Previous Bill Qty	**Rmtr**	**-**			
	Total	**Rmtr**	**168.00**			
	Tender Qty	**Rmtr**	**50.00**			
	Qty Upto 125%	**Rmtr**	**62.50**	**600.49**	**37530.63**	
	Qty Above 125%	**Rmtr**	**105.50**	**540.20**	**56991.18**	
Item No. 08	Supply of ISI mark 175 mm nominal bore, plain end steel casing pipe grade of steel fee 410 of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest amendments, electric resistance welded steel tube material and confirming to IS 1387/1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5 to 7 mts. Both ends threaded confirming to IS 4270:2001 and the other end with screwed pipes. All pipes shall be reasonably free from defects. The tubes shall be reasonably straight should be with ISI marking, weighing 25.10 Kg/mtr.(Inclusive of all taxes and durties). Prices include collar-medium duty. and as per the directions of the Engineer-in-charge of the work .	**Rmtr**	**210.00**			
	present Qty	**Rmtr**	**210.00**			
	Previous Bill Qty	**Rmtr**	**-**			
	Total	**Rmtr**	**210.00**			
	Modified Tender Qty	**Rmtr**	**210.00**			
	Now to be paid	**Rmtr**	**210.00**	**1364.75**	**286597.50**	

AE(N-D)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Item No. 09	Providing 200mm dia PVC Pipe10kg/cm2 SE PRED PAGE NO 15 IT 3.4.3 G and as per the directions of the Engineer-in-charge of the work .	**Rmtr**	**140.00**			
	present Qty	**Rmtr**	**140.00**			
	Previous Bill Qty	**Rmtr**	**-**			
	Total	**Rmtr**	**140.00**			
	Modified Tender Qty	**Rmtr**	**140.00**			
	Now to be paid	**Rmtr**	**140.00**	**1144.00**	**160160.00**	
Item No.10	Providing and supllying 175mm dia M.S.Cap (as per PREC SR 2012-13) etc., complete as per specifications and direction of the Engineer--in-charge	**Nos**	**7.00**			
	present Qty	**Nos**	**7.00**			
	Previous Bill Qty	**Nos**	**-**			
	Total	**Nos**	**7.00**			
	Modified Tender Qty	**Nos**	**7.00**			
	Now to be paid	**Nos**	**7.00**	**100.00**	**700.00**	
Item No.11	Supplying and delivery of sub mersible pumpset suitable for borewell of 165mm dia with specified duty conditions as detailed below and satisfied in BIS with ISI mark with a minimum efficeiency of 42% pump shall confirm to IS 8034/2002 and motor confirming to IS 9283/1995 with ISI certification with latest amendemnets for the following, and as per the directions of the Engineer-in-charge of the work .	**Nos**	**4.00**			
	present Qty	**Nos**	**4.00**			
	Previous Bill Qty	**Nos**	**-**			
	Total	**Nos**	**4.00**			
	Modified Tender Qty	**Nos**	**6.00**			
	Now to be paid	**Nos**	**4.00**	**56607.00**	**226428.00**	
Item No.12	Providing and fixing in galvanised mild steel tubes (Heavy class as per IS 1239 Part-1990) 50mm dia nominal bore with all fittings including cost of all materials labour charges HOM of euipment and testing complete as per specification and as per the directions of the Engineer-in-charge of the work .	**Mtr**	**1026.00**			
	present Qty	**Mtr**	**1026.00**			
	Previous Bill Qty	**Mtr**	**-**			
	Total	**Mtr**	**1026.00**			
	Modified Tender Qty	**Mtr**	**1026.00**			
	Now to be paid	**Mtr**	**1026.00**	**378.92**	**388771.92**	
Item No.13	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 49/ I No. 29-c(1) 2.5 Sqm mm of 36 strands 0.3mm dia and as per the directions of the Engineer-in-charge of the work .	**Mtr**	**2252.00**			
	present Qty	**Mtr**	**2252.00**			
	Previous Bill Qty	**Mtr**	**-**			
	Total	**Mtr**	**2252.00**			
	Modified Tender Qty	**Mtr**	**2252.00**			

AE(LP)

Assistant Executive Engineer
Kodichenahalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

	Now to be paid	**Mtr**	**2252.00**	**171.70**	**386668.40**	
Item No.14	Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair supporting clamps, one borewell cap. Cable clips with bolts, nuts, valves guages etc., involoved in the job (Necessary GI pipe and specials with be supplied by the board at the site free of cost) and as per the directions of the Engineer-in-charge of the work .	**Nos**	**4.00**			
	present Qty	**Nos**	**4.00**			
	Previous Bill Qty	**Nos**	**-**			
	Total	**Nos**	**4.00**			
	Modified Tender Qty	**Nos**	**4.00**			
	Now to be paid	**Nos**	**4.00**	**3000.00**	**12000.00**	
Item No.15	Supply heavy duty galvanized mild steel color suitable for 50mm dia nominal bore galvanized mild steel and as per the directions of the Engineer-in-charge of the work .	**Nos**	**171.00**			
	present Qty	**Nos**	**171.00**			
	Previous Bill Qty	**Nos**	**-**			
	Total	**Nos**	**171.00**			
	Modified Tender Qty	**Nos**	**171.00**	258		
	Now to be paid	**Nos**	**171.00**	**130.00**	**22230.00**	
Item No.16	Supply of non return valve suitable for 50mm dia nominal bore galvanized mild steel tube and as per the directions of the Engineer-in-charge of the work .	**Nos**	**4.00**			
	present Qty	**Nos**	**4.00**			
	Previous Bill Qty	**Nos**	**-**			
	Total	**Nos**	**4.00**			
	Modified Tender Qty	**Nos**	**4.00**			
	Now to be paid	**Nos**	**4.00**	**1409.00**	**5636.00**	
Item No.17	Supplying of on load charges over switches 4 poles 415V, 5hr ac supply 100-125 amps group A and as per the directions of the Engineer-in-charge of the work .	**Nos**	**4.00**			
	present Qty	**Nos**	**4.00**			
	Previous Bill Qty	**Nos**	**-**			
	Total	**Nos**	**4.00**			
	Modified Tender Qty	**Nos**	**4.00**			
	Now to be paid	**Nos**	**4.00**	**9845.00**	**39380.00**	
Item No.18	Supply and fully automatic star delta uint push button type with suitable wires, 3 conatactor one adjustable thermal timer mounted on a common base late held in steel enclosure for use on 440/440 volts 3 phase and wired after to the existing wooden board for motor 12.5 HP and as per the directions of the Engineer-in-charge of the work .	**Nos**	**4.00**			
	present Qty	**Nos**	**4.00**			
	Previous Bill Qty	**Nos**	**-**			
	Total	**Nos**	**4.00**			
	Modified Tender Qty	**Nos**	**4.00**			
	Now to be paid	**Nos**	**4.00**	**5665.00**	**22660.00**	

AE(NS)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Item No. 19	Erection of single phase preventor ammeters/including fixing selctor switch/current operated earth leakage circuit breakers voltage operated circuit breaker above 100A fuse channel set (3 Nos) HRC fuses above 100A (3 Nos) including transportation charges from stores to spot and as per the directions of the Engineer-in-charge of the work .	Nos	4.00			
	present Qty	Nos	4.00			
	Previous Bill Qty	Nos	-			
	Total	Nos	4.00			
	Modified Tender Qty	Nos	4.00			
	Now to be paid	Nos	4.00	1500.00	6000.00	
Item No. 20	Fabricating, supplying and mounting 1200x900x350 mm MS box of 18 SWG suitable for floor /wall mounting, fully weather proof with double stanted top as per drawing with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with approved colour enamelled metal paint etc., complete box of 36200 sqcm and as per the directions of the Engineer-in-charge of the work .	Nos	4.00			
	present Qty	Nos	4.00			
	Previous Bill Qty	Nos	-			
	Total	Nos	4.00			
	Modified Tender Qty	Nos	4.00			
	Now to be paid	Nos	4.00	7866.00	31464.00	
Item No.21	Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materials and wiring complete as requireds32 to 63 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications and as per the directions of the Engineer-in-charge of the work .	Nos	4.00			
	present Qty	Nos	4.00			
	Previous Bill Qty	Nos	-			
	Total	Nos	4.00			
	Modified Tender Qty	Nos	4.00			
	Now to be paid	Nos	4.00	2090.00	8360.00	
Item No.22	Supplying and running of GI copper strips or grounding connections using necessary fixing materials required 600x600x3mm GI plate and as per the directions of the Engineer-in-charge of the work .	Nos	4.00			
	present Qty	Nos	4.00			
	Previous Bill Qty	Nos	-			
	Total	Nos	4.00			
	Modified Tender Qty	Nos	6.00			
	Now to be paid	Nos	4.00	1072.00	4288.00	

AE(M)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Item 23	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete… and as per the directions of the Engineer-in-charge of the work .	Nos	24.00			
	present Qty	Nos	24.00			
	Previous Bill Qty	Nos	-			
	Total	Nos	24.00			
	Modified Tender Qty	Nos	24.00			
	Now to be paid	Nos	24.00	201.40	4833.60	
Item No.24	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm @ Rs.0.33 and as per the directions of the Engineer-in-charge of the work .	Sqcm	93600.00			
	present Qty	Sqcm	93600.00			
	Previous Bill Qty	Sqcm	-			
	Total	Sqcm	93600.00			
	Modified Tender Qty	Sqcm	93600.00	140400		
	Now to be paid	Sqcm	93600.00	0.33	30888.00	
Item No.25	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts. A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. and as per the directions of the Engineer-in-charge of the work .	Nos	4.00			
	present Qty	Nos	4.00			
	Previous Bill Qty	Nos	-			
	Total	Nos	4.00			
	Modified Tender Qty	Nos	4.00			
	Now to be paid	Nos	4.00	10000.00	40000.00	
Item No.26	Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Nos	4.00			
	present Qty	Nos	4.00			
	Previous Bill Qty	Nos	-			

AE(Wks)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

	Total	**Nos**	4.00			
	Modified Tender Qty	**Nos**	4.00			
	Now to be paid	**Nos**	4.00	1843.34	7373.36	
Item No.27	Supplying of LTUG cable having aluminium condutor PVC insulated shethed, galvnised steel, wire / steel tap armoured cable with PVC outer sheathing 1.1 KV class. and as per the directions of the Engineer-in-charge of the work .	**Rmt**	105.00			
	present Qty	**Rmt**	105.00			
	Previous Bill Qty	**Rmt**	-			
	Total	**Rmt**	105.00			
	Modified Tender Qty	**Rmt**	105.00	150		
	Now to be paid	**Rmt**	105.00	140.40	14742.00	
Item No.28	Labour charges for laying of 1.1 K.V class UG cable (PWD Electrical SR-1999-2000, P No. 69 / I No. Ia In existing trencg/duct 6Sqmm to 16 Sqmm) and as per the directions of the Engineer-in-charge of the work .	**Rmt**	105.00			
	present Qty	**Rmt**	105.00			
	Previous Bill Qty	**Rmt**	-			
	Total	**Rmt**	105.00			
	Modified Tender Qty	**Rmt**	105.00	150		
	Now to be paid	**Rmt**	105.00	10.80	1134.00	
Item No.29	Digging or trenching of 0.6m deep x 0.5 mtr wide refilling the trench to the required ground level and consolidating etc., complete and as per the directions of the Engineer-in-charge of the work .	**Rmt**	105.00			
	present Qty	**Rmt**	105.00			
	Previous Bill Qty	**Rmt**	-			
	Total	**Rmt**	105.00			
	Modified Tender Qty	**Rmt**	105.00	150		
	Now to be paid	**Rmt**	105.00	117.00	12285.00	
Item No.30	Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class and as per the directions of the Engineer-in-charge of the work .	**Nos**	16.00			
	present Qty	**Nos**	16.00			
	Previous Bill Qty	**Nos**	-			
	Total	**Nos**	16.00			
	Modified Tender Qty	**Nos**	16.00	24		
	Now to be paid	**Nos**	16.00	345.00	5520.00	

AE(Ltg)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

tem 31	Supplying and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary bituumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., and as per the directions of the Engineer-in-charge of the work .	Nos	4.00			
	present Qty	Nos	4.00			
	Previous Bill Qty	Nos	-			
	Total	Nos	4.00			
	Modified Tender Qty	Nos	4.00			
	Now to be paid	Nos	4.00	280.00	1120.00	
Item No.32	Cutting the road surface for pipeline trenches and disposing of the excavated stuff as directed including barricading danger lighting etc in following classifications Cutting in Cement concrete road surface and as per the directions of the Engineer-in-charge of the work .	Cum	90.72			
	present Qty	Cum	90.72			
	Previous Bill Qty	Cum	-			
	Total	Cum	90.72			
	Modified Tender Qty	Cum	90.72			
	Now to be paid	Cum	90.72	727.16	65967.96	
Item No.33	Providing and fixing Chorinated Poly Venyl Chloride(CPVC) pipes confirming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass treaded fittings including fixing the pipe with clamp at 1.oo m spacing.This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete (inertnal work exposed on wall). and as per the directions of the Engineer-in-charge of the work .	m	1512.00			
	present Qty	m	1512.00			
	Previous Bill Qty	m	-			
	Total	m	1512.00			
	Modified Tender Qty	m	1512.00			
	Now to be paid	m	1512.00	448.00	677376.00	
Item No.34	Providing and filling sand in foundation upto plinth to required depth for sub soil treatment including watering ramming with lead upto 50m. and lift upto 1.5m complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Cum	30.24			
	present Qty	Cum	30.24			
	Previous Bill Qty	Cum	-			
	Total	Cum	30.24			
	Modified Tender Qty	Cum	30.24			
	Now to be paid	Cum	30.24	2183.60	66032.06	
Item No.35	BESCOM Deposit charges	Nos	1.00			
	present Qty	Nos	1.00			
	Previous Bill Qty	Nos	-			
	Total	Nos	1.00			
	Modified Tender Qty	Nos	1.00			
	Now to be paid	Nos	1.00	18000.00	18000.00	
				TOTAL AMOUNT	3370821.82	

AE(W)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092